

Environmental Protection Agency

§ 86.205-11

“US06 City” phase (sampled during seconds 1-130 and seconds 495-596 of the US06 driving schedule) and the “US06 Highway” phase (sampled during seconds 130-495 of the US06 driving schedule), based on the measured driving distance of the US06 test schedule.

$$(ii) \text{ Composite (NMHC+NO}_x\text{)} = Y_{\text{WSFTP(NMHC)}} + Y_{\text{WSFTP(NO}_x\text{)}}$$

Where:

(A) $Y_{\text{WSFTP(NMHC)}}$ = results of paragraph (c)(2)(i) of this section for NMHC.

(B) $Y_{\text{WSFTP(NO}_x\text{)}}$ = results of paragraph (c)(2)(i) of this section for NO_x .

(d) The NO_x humidity correction factor for adjusting NO_x test results to the environmental test cell air conditioning ambient condition of 100 grains of water/pound of dry air is:

$$K_H(100) = 0.8825/[1-0.0047(H-75)]$$

Where:

H = measured test humidity in grains of water/pound of dry air.

[71 FR 77922, Dec. 27, 2006]

Subpart C—Emission Regulations for 1994 and Later Model Year Gasoline-Fueled New Light-Duty Vehicles, New Light-Duty Trucks and New Medium-Duty Passenger Vehicles; Cold Temperature Test Procedures

SOURCE: 57 FR 31916, July 17, 1992, unless otherwise noted.

§ 86.201-94 General applicability.

(a) This subpart describes procedures for determining the cold temperature carbon monoxide (CO) emission from 1994 and later model year new gasoline-fueled light-duty vehicles and light-duty trucks.

(b) All of the provisions of this subpart are applicable to testing conducted at a nominal temperature of 20 °F (−7 °C).

(c) The provisions that are specially applicable to testing at temperatures between 25 °F (−4 °C) and 68 °F (20 °C) are specified in § 86.246-94 of this subpart.

§ 86.201-11 General applicability.

(a) This subpart describes procedures for determining the cold temperature carbon monoxide (CO) emissions from

1994 and later model year new gasoline-fueled light-duty vehicles and light-duty trucks, and for emissions sampling for determining fuel economy according to part 600 of this chapter for 2011 and later model year new gasoline-fueled and diesel-fueled light-duty vehicles and light-duty trucks.

(b) All of the provisions of this subpart are applicable to testing conducted at a nominal temperature of 20 °F (−7 °C).

(c) The provisions that are specifically applicable to testing at temperatures between 25 °F (−4 °C) and 68 °F (20 °C) are specified in § 86.246-94 of this subpart.

[71 FR 77922, Dec. 27, 2006]

§ 86.202-94 Definitions.

The definitions in subpart A of this part apply to this subpart.

§ 86.203-94 Abbreviations.

The abbreviations in subpart A of this part apply to this subpart.

§ 86.204-94 Section numbering; construction.

(a) In the section number, the two digits following the hyphen designate the first model year for which a section is effective. A section remains effective until superseded.

(b) *Example.* Section 86.204-94 applies to the 1994 and subsequent model years until superseded. If a § 86.204-96 is promulgated it would take effect beginning with the 1996 model year; § 86.204-94 would apply to model years 1994 through 1995.

§ 86.205-11 Introduction; structure of this subpart.

(a) This subpart describes the equipment required and the procedures to follow in order to perform gaseous exhaust emission tests on gasoline-fueled and petroleum-fueled diesel cycle (where applicable under part 600 of this chapter) light-duty vehicles and light-duty trucks. Subpart A of this part sets forth testing requirements and test intervals necessary to comply with EPA certification procedures.

(b) A section reference without a model year suffix refers to the section applicable for the appropriate model years.

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(c) Three topics are addressed in this subpart. Sections 86.206 through 86.215 set forth specifications and equipment requirements; §§ 86.216 through 86.226 discuss calibration methods and frequency; test procedures and data requirements are listed (in approximate order of performance) in §§ 86.227 through 86.245.

[71 FR 77922, Dec. 27, 2006]

§ 86.205–94 Introduction; structure of this subpart.

(a) This subpart describes the equipment required and the procedures to follow in order to perform gaseous exhaust emission tests on gasoline-fueled light-duty vehicles and light-duty trucks. Subpart A of this part sets forth testing requirements and test intervals necessary to comply with EPA certification procedures.

(b) A section reference without a model year suffix refers to the section applicable for the appropriate model years.

(c) Three topics are addressed in this subpart. Sections 86.206 through 86.215 set forth specifications and equipment requirements; §§ 86.216 through 86.226 discuss calibration methods and frequency; test procedures and data requirements are listed (in approximate order of performance) in §§ 86.227 through 86.245.

§ 86.206–11 Equipment required; overview.

This subpart contains procedures for exhaust emission tests on gasoline-fueled and petroleum-fueled diesel cycle (where applicable under part 600 of this chapter) light-duty vehicles and light-duty trucks. Equipment required and specifications are as follows:

(a) *Exhaust emission tests.* Exhaust from gasoline-fueled and petroleum-fueled diesel cycle (where applicable under part 600 of this chapter) vehicles is tested for gaseous emissions using the Constant Volume Sampler (CVS) concept (§ 86.209). Equipment necessary and specifications appear in §§ 86.208 through 86.214.

(b) *Fuel, analytical gas, and driving schedule specifications.* Fuel specifications for exhaust emission testing for gasoline-fueled and petroleum-fueled diesel cycle vehicles are specified in

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§ 86.213. Analytical gases are specified in § 86.214. The EPA Urban Dynamometer Driving Schedule (UDDS) for use in gasoline-fueled emission tests is specified in § 86.115 and Appendix I to this part.

[71 FR 77922, Dec. 27, 2006]

§ 86.206–94 Equipment required; overview.

This subpart contains procedures for exhaust emission tests on gasoline-fueled light-duty vehicles and light-duty trucks. Equipment required and specifications are as follows:

(a) *Exhaust emission tests.* Exhaust from gasoline-fueled vehicles is tested for gaseous emissions using the Constant Volume Sampler (CVS) concept (§ 86.209). Equipment necessary and specifications appear in §§ 86.208 through 86.214.

(b) *Fuel, analytical gas, and driving schedule specifications.* Fuel specifications for exhaust emission testing for gasoline-fueled vehicles are specified in § 86.213. Analytical gases are specified in § 86.214. The EPA Urban Dynamometer Driving Schedule (UDDS) for use in gasoline-fueled emission tests is specified in § 86.215 and appendix I to this part.

§ 86.207–94 [Reserved]

§ 86.208–94 Dynamometer.

(a) For testing that is conducted by the Administrator, the dynamometer shall have a single roll with a nominal diameter of 48 inches (1.22 meters), an electrical power absorption unit for simulation of road load power, flywheels or other means for simulating the inertia weight as specified in § 86.229, and a roll or shaft revolution counter or other means for determining distance driven.

(b) For certification testing that is conducted by the manufacturer, a dynamometer with different characteristics may be used provided cold CO emissions are not decreased.

§ 86.209–94 Exhaust gas sampling system; gasoline-fueled vehicles.

The provisions of § 86.109–90 apply to this subpart.